

Title (en)
SINGLE PHOTON EMISSION CT APPARATUS

Publication
EP 0412734 A3 19930107 (EN)

Application
EP 90308564 A 19900803

Priority
JP 20232489 A 19890804

Abstract (en)
[origin: EP0412734A2] A single-photon emission computed tomography (SPECT) apparatus for detecting gamma rays emitted from a radioisotope given to a body to be examined, including three focus collimators (9) and corresponding detectors (10) arranged at 120\circ intervals and each capable of rotating 120\circ around the body for providing detection data; a processor for processing said detection data to produce a reconstruction data corresponding to a density distribution tomographic image of the radioisotope in the body; and holding mechanisms for positioning a compensation radioisotope (19) adjacent the focus point of each focus collimator on a structure (61) which rotates together with each focus collimator and corresponding detector upon rotation of each focus collimator and corresponding detector around the body.

IPC 1-7
G01T 1/29

IPC 8 full level
G01T 1/161 (2006.01); **G01T 1/164** (2006.01); **G01T 1/20** (2006.01); **G01T 1/29** (2006.01)

CPC (source: EP US)
A61B 6/037 (2013.01 - EP US); **G01T 1/2985** (2013.01 - EP US)

Citation (search report)
• [A] US 4575868 A 19860311 - UEDA KEN [JP], et al
• [AP] US 4882494 A 19891121 - ROGERS ROXANNE R [US], et al
• [A] US 4752691 A 19880621 - HAWMAN ERIC G [US]

Cited by
US5869841A; ES2292327A1; US5252830A; CN106108929A; US8541748B2; WO2007074201A3

Designated contracting state (EPC)
DE NL

DOCDB simple family (publication)
EP 0412734 A2 19910213; **EP 0412734 A3 19930107**; **EP 0412734 B1 19950308**; DE 69017550 D1 19950413; DE 69017550 T2 19950914; JP H0367194 A 19910322; JP H0619439 B2 19940316; US 5055687 A 19911008

DOCDB simple family (application)
EP 90308564 A 19900803; DE 69017550 T 19900803; JP 20232489 A 19890804; US 56227690 A 19900803